JD JENDIGITAL C 3.0C

3 Megapixels Digital Camera

User's Guide

www.jenoptik-camera.com

CONGRATULATIONS

Congratulations on the purchase of your new camera. Your camera has been carefully engineered and manufactured to give you dependable operation. Read this manual before operating the camera to become more familiar with it.

This manual has been written and formatted with depth and detail so that you can easily follow the instructions to maximize the features of your camera.

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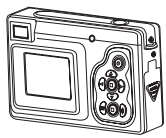
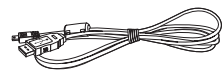
GETTING STARTED

PACKAGE CONTENTS

Check if all of the items shown below are included .

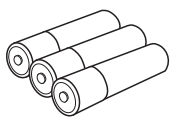


Digital camera

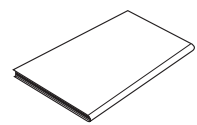


USB cable

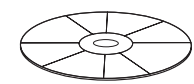
Wrist strap



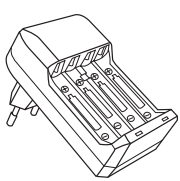
3x AAA Batteries



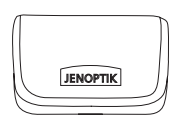
Quick Start guide



CD-ROM (Includes Camera Driver, Photo editing software, multi-lingual User's Guide etc.)



Battery charger (Optional)



camera case

SYSTEM REQUIREMENTS

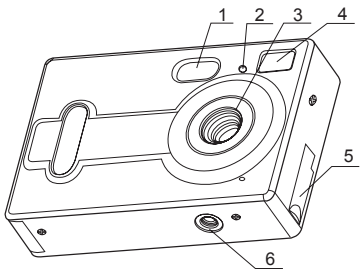
Windows:

- PC with processor better than MMX Pentium 400 MHz
- Windows XP/2000/ME/98SE
- Minimum 128 MB RAM
- 310MB of available hard disk space
- USB port
- CD-ROM driver
- 1024 x 768 monitor, 24-bit color (true color)

Specifications are subject to change without prior notice.

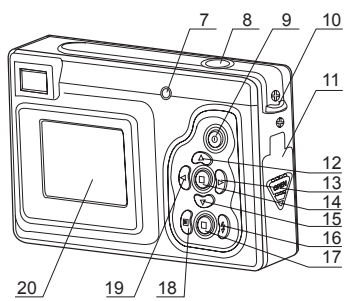
CAMERA OVERVIEW

Front View



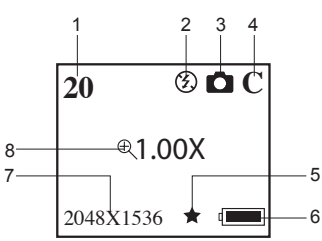
1. Flash
2. Self-Timer LED
3. Lens
4. Viewfinder
5. USB port
6. Tripoad Socket

Back View



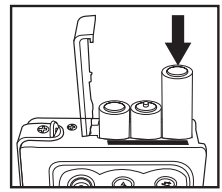
7. Flash Ready LED
8. Shutter Button
9. Power Button
10. Wrist Strap Holder
11. Battery/Memory Card Door
12. Move up (▲) Button
13. Move to right (▶) Button
14. MENU Button
15. Move down (▼) Button
16. Flash Button
17. Review Button
18. LCD On/Off Button
19. Move to left (◀) Button
20. LCD

LCD indications



1. Frame Counter
2. Flash
3. Camera Mode
4. Memory Card Loaded
5. Image Quality
6. Battery Level
7. Resolution
8. Zoom Indicator

LOADING THE BATTERIES



The camera uses 3x AAA alkaline or rechargeable batteries.

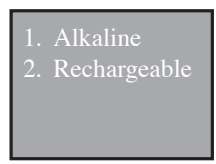
1. Slide the Battery Door and lift it open.
2. Insert the batteries according to the polarity indication engraved on the battery contact.
3. Close the battery compartment cover.

Checking the Battery Level

The battery level indicates the power of the batteries.

Full	Low	Empty

Note: When batteries are low, the camera will ask you to input battery type information. This is because the camera needs to adjust its working voltage to meet the battery supply as rechargeable batteries are usually 1.2V while alkaline batteries are 1.5V. Choose the correct battery type by pressing the ▲ or ▼ button first, and then pressing the Menu button.



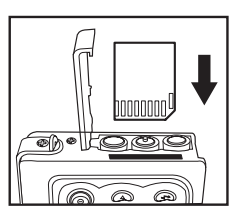
INSERTING AN SD CARD

The camera uses a Secure Digital (SD) memory card to store images and or video clips. Before proceeding to shoot picture with the camera, you need to buy one SD card.

To insert an SD card:

Insert the memory card in the direction as shown in figure, then gently but firmly push the SD card into the SD card slot as far as possible. When the card is fully engaged, a click can be heard.

Note: NEVER forcefully push the card into the camera to avoid damaging both the card and/or the camera.



To remove the SD card:

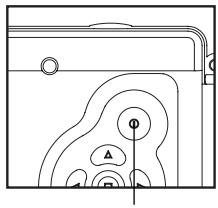
Press the memory card into the slot then release. When the card is partially ejected, pull it out.

Note : If the format of SD card is FAT32 or NTFS, the camera will format this SD card without any warning and will change the format to FAT16 file format. Existing files or pictures on the card will be deleted.

TURNING THE CAMERA ON OR OFF

Press and hold the **Power** button for a few second to turn the camera on. The blue Flash Ready LED will light up first, and then the LCD will turn on automatically.

The camera will be turned on at the last set mode. Refer to page 8 to switch the camera to desired mode.



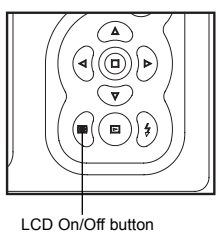
The camera will automatically power off after being idled for around 30 seconds by default. To power off the camera sooner, press and hold the **Power** button for a few seconds.

Note: Refer to page 14 to adjust auto power off timing.

TURNING THE LCD ON OR OFF

The camera has a 1.4” LCD which can frame subjects for image and video clip capture, review stored images and video clips and to display the current camera settings.

Press the **LCD On/Off** button to toggle the LCD mode. The LCD mode changes each time the button is pressed.



LCD on with icons → Icons off → LCD off

Note:
- To save battery power, you may turn off the LCD display.
- In (▶) Review Mode, the LCD changes as below when the LCD On/Off button is pressed repeatedly: LCD on with icons → Icons off → Thumbnail view

SETTING THE CAMERA'S OPERATIONAL MODE

The camera has four capture modes and a review mode:

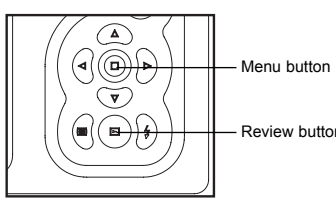
Mode		Icon	Description
Capture mode	Single		Use this mode to take pictures.
	Self-Timer		Use this mode to take pictures where you want to be included in the photograph
	Video 320x240		Use this mode to record video clips in 320x240 resolution.
	Video 192x144		To record video clips in 192x144 resolution.
Review mode		--	Use this mode to playback the pictures and or video clips.

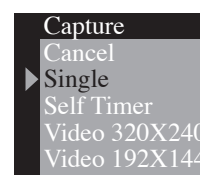
To switch between Capture mode and Review mode

When the camera is powered on, it is at either one of the above capturing modes or at review mode. You may press the **Review** button to change the camera mode from capture mode to review mode or vice versa.

To set the camera to desired capture mode

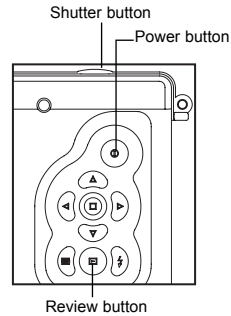
1. Power on the camera.
2. Press the **Menu** button.
3. Press the ▲ or ▼ button to highlight **Single, Self-Timer, Video 320x240** or **Video 192x144.**
4. Press the **Menu** button again to confirm. The icon of the selected mode will be shown on the LCD.





Note: The setting remains until you change it.

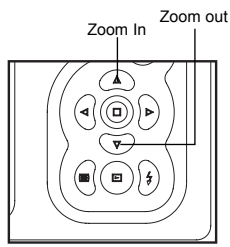
TAKING PICTURES AND VIDEO CLIPS



TAKING PICTURES

1. Power on the camera.
2. Set the camera to Single capture mode ( ). (p. 8)
3. Frame your subject with the LCD or viewfinder.
   - For better results, stand at least 1.5m away from the subject.
4. Hold the camera still and press the **Shutter** button to take the picture.

USING THE DIGITAL ZOOM

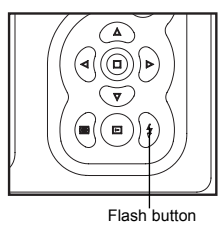


The camera provides up to 4x digital zoom.

1. Press the ▲ button to zoom in. The digital zoom indicator will be shown on the LCD.
2. Press the ▼ to zoom out or return to the normal mode.

Important:
1. Hold your camera steady when using Digital Zoom to prevent blurred pictures, caused by jittery movement. It is recommended to either place your camera on a steady surface or mount it on a tripod.
2. The image quality may degrade slightly with Digital Zoom.

SETTING THE FLASH



By default, the flash is set at Off mode. When taking pictures at night, indoor, or outdoor in heavy shadows, you may press the Flash button to turn the Flash on.

Press the **Flash** button repeatedly until the desired indicator appears on the LCD.

- When the flash is under charging, the blue Flash Ready LED will light. When the flash is full charged, the Flash Ready LED will turn off. Please wait until the flash stops blinking before proceeding to take pictures.

Flash Mode	Description
Off	In this mode, the flash will not fire, regardless of the lighting condition.
Auto Flash	The camera judges if a flash is required. If the environment is too dark, the flash will fire.
Fill Flash	Flash will fire in any lighting condition.

Note: The camera will remain at Flash Off mode when battery is low. If flash is needed, please replace the batteries with fresh ones.

TAKING PICTURES WITH SELF-TIMER

This function is useful for taking pictures where you want to be included in the photograph. Fix the camera securely on a tripod or the flat surface for self-timer shooting.

1. Power on the camera.
2. Set the camera to Self-Timer capture mode ( ). (p.8)
3. Frame your subject with the LCD or viewfinder.
4. Press the **Shutter** button to activate the Self-Timer.
   While the self-timer is functioning, the self -timer lamp on the front of the camera will blink. As the time to take the picture is closer, the lamp blinks faster, normally for 7 seconds, fast for the following 3 seconds, then the image will be captured.

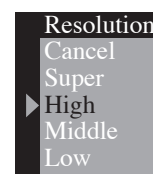
To deactivate the Self-Timer, set the camera mode to other capture mode.

SETTING IMAGE RESOLUTION

The camera provides four image resolutions:

Mode	Resolution	Indicator	Description
or	Super	2304 x 1728 (interpolated)	Large picture size: produces higher picture resolution and larger file size.
	High	2048 x 1536	Standard picture size: produces normal picture resolution and moderate file size.
	Middle	1600 x 1200	Small picture size: pictures are of lower resolution and file size is small.
	Low	1280 x 1024	Even smaller picture size.

1. Power on the camera.
2. Make sure the camera to set at Single capture mode. (p.8)
3. Press the **Menu** button.
4. Press ◀ or ▶ button to highlight **Resolution**.
5. Press the ▲ or ▼ button to highlight **Super, High, Middle** or **Low**.
6. Press the **Menu** button again to confirm. The selected resolution will be shown on the LCD.



Note: The setting remains until you change it.

SETTING IMAGE QUALITY

The camera provides two image quality settings:

Mode	Quality	Indicator	Description
or	High	★★	Can be used for printing images
	Standard	★	Can be used for general purpose pictures.

1. Power on the camera.
2. Make sure the camera to set at Single capture mode. (p.8)
3. Press the **Menu** button.
4. Press ◀ or ▶ button to highlight **Quality.**
5. Press the ▲ or ▼ button to highlight **High**, or **Standard.**
6. Press the **Menu** button again to confirm. The selected resolution will be shown on the LCD.

Note: The setting remains until you change it.

SETTING IMAGE COLOR

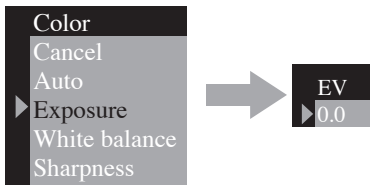
By default the camera uses **Auto** color setting to reproduce best colors under different lighting conditions. However, you may change image Exposure, White Balance and Sharpness settings to suit your purpose.

1. Power on the camera.
2. Make sure the camera to set at Single capture mode. (p.8)
3. Press the **Menu** button.
4. Press ◀ or ▶ button to highlight Color. Then,

Setting Exposure Compensation

Exposure compensation lets you change the exposure setting (EV value) manually to suit the lighting condition of your subject. This feature helps to achieve better result when shooting a backlit subject, a strongly lit subject indoors, or a subject that is against a dark background.

1. Press the ▲ or ▼ button to highlight **Exposur**e, then press **Menu** button. The EV setting submenu is shown on the LCD.
2. Press the ▲ or ▼ button to select the desired EV setting: **-1.5, -1.2, -0.9, -0.6, -0.3, 0.0, 0.3, 0.6, 0.9, 1.2, 1.5.**
3. Press the **Menu** button again to confirm.

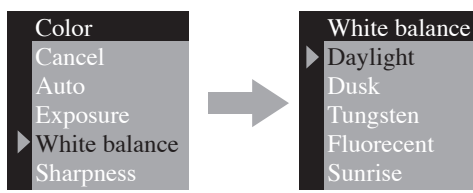


Setting White Balance

When the white balance is set to match the light source, the camera can take picture more accurately.

Auto (Default)	The camera sets the white balance automatically according to shooting conditions.
Daylight	Use when shooting outdoors in sunlight on a clear day.
Dusk	Use when shooting outdoors at dusk.
Tungsten	For shooting under tungsten lighting.
Fluorescent	For shooting under fluorescent lighting.
Sunrise	Use when shooting outdoors at sunrise.

1. Press the ▲ or ▼ button to highlight White Balance, then press **Menu** button. The White Balance submenu is shown on the LCD.
2. Press the ▲ or ▼ button to select the desired setting.
3. Press the **Menu** button again to confirm.



Setting Image Sharpness

You can select whether you want the image to have sharp or soft outlines.

Normal	For shooting image without special sharpness processing.
Sharp	For shooting image with distinct outline.
Soft	For shooting image with soft outline.

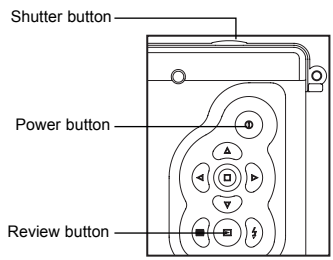
1. Press the ▲ or ▼ button to highlight **Sharpness**, then press **Menu** button. The Sharpness submenu is shown on the LCD.
2. Press the ▲ or ▼ button to select the desired setting.
3. Press the **Menu** button again to confirm.

TAKING VIDEO CLIPS

The camera provides two video resolutions:

Icon	Resolution	Frame Rate (per second)	Description
	320 x 240	10 fps	Suitable for both view and email.
	192 x 144	25 fps	Best for e-mail.

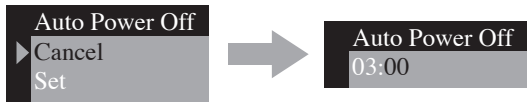
1. Turn on the camera.
2. Set the camera to one of the two video capture modes ( ). (p.8)
3. Use the viewfinder or camera screen to frame your subject.
4. Press the **Shutter** button to start recording the video. The elapsed recording time is displayed.
5. Press the **Shutter** button again to stop recording. Otherwise the camera will keep recording until the memory is full.



CUSTOMIZING YOUR CAMERA SETTINGS

SETTING AUTO POWER OFF

By default the camera will be turned off automatically to save battery power after being idled for 30 seconds. However, you can set the auto-off timing freely.

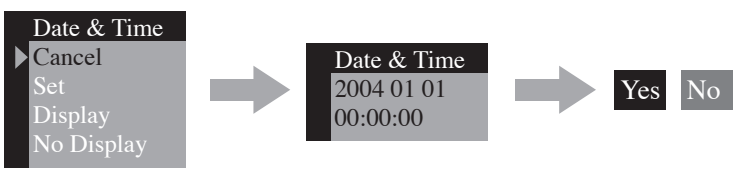


1. Power on the camera.
2. Press the **Menu** button.
3. Press ◀ or ▶ button to highlight **Auto Power Off**.
4. Press the ▲ or ▼ button to highlight **Set**, and then press the **Menu** button. The auto-power-off submenu is shown on the LCD.
5. Press ◀ or ▶ to highlight the field (minute or second field) to be changed, and then press ▲ or ▼ to set the value.
6. When the time is set, press the **Menu** button to confirm.

Note: The maximum Auto-Power-Off timing is 59:59. However, it is recommended to set Auto-Power-Off timing to 2 to 5 minutes to save batteries.

SETTING DATE AND TIME

You may set the Date and Time when you first use your camera or when the batteries are removed The date and time information will be displayed when the pictures are reviewed if you selected “Display” while setting date/time.



1. Power on the camera.
2. Press the **Menu** button.
3. Press ◀ or ▶ button to highlight **Date & Time**.
4. Press the ▲ or ▼ button to highlight **Set**, and then press the **Menu** button. The Date/Time submenu is shown on the LCD.
5. Press ◀ or ▶ to highlight the field to be changed, and then press ▲ or ▼ to set the value.
6. When the date and time is set, press the **Menu** button to enter its submenu.
7. Press ◀ or ▶ to select **Yes** and then press **Menu** button. The date and time is then set.

To display the date/time setting on pictures, please:

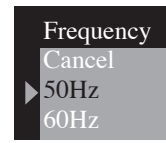
1. Follow steps 1-3 above.
2. Press the ▲ or ▼ button to highlight **Display**, and then press the **Menu** button.

SETTING ANTI-FLICKER FREQUENCY

While taking pictures or recording video clips under indoor florescent lighting, the flicker of the light source will decrease the image quality. To overcome this phenomenon, you can change the light frequency setting to suit the light source.

50Hz (Default)	Setting the flicker frequency to 50 Hz.
60Hz	Setting the flicker frequency to 60 Hz.

1. Power on the camera.
2. Press the **Menu** button.
3. Press ◀ or ▶ button to highlight **Frequency**.
4. Press the ▲ or ▼ button to highlight **50Hz** or **60Hz.**
5. Press the **Menu** button to confirm.



SETTING LANGUAGE

The camera provides 10 languages' LCD display. Select the language you like by following steps below:

1. Power on the camera.
2. Press the **Menu** button.
3. Press ◀ or ▶ button to highlight Language.
4. Press the ▲ or ▼ button to highlight the desired language.

English (Default)	Setting the language to English.
Français	Setting the language to French.
Deutsch	Setting the language to German.
Español	Setting the language to Spanish.
Italiano	Setting the language to Italian.
Nederlands	Setting the language to Dutch.
Português	Setting the language to Portuguese.
Čeština	Setting the language to Czech.
Magyar	Setting the language to Hungary.
日本語	Setting the language to Japanese.

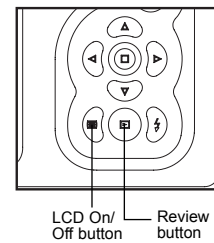
5. Press the **Menu** button to confirm.

REVIEWING YOUR FILES

VIEWING FILES

1. Press the **Review** button to enter playback mode. The LCD will show the stored pictures and or video clips in Thumbnail View mode by default. The last file will be highlighted with a yellow border. The file type will be shown on the upper left corner of the LCD:
   - **JPG** = Picture, **AVI** = Video Clip
2. Press the ▲ , ▼, ◀ or ▶ button to browse through the files.
3. Press the **LCD On/Off** button to view the selected picture in full screen or to playback the selected video clips.
4. Press the ◀ button to skip to the previous file, press the ▶ button to skip to the next file.
   Note: When video clip is shown, the LCD will show Yes/No option:
   - **Yes:** To start playing the video clip
   - **No:** Do not play the video clip.

   Press the ◀ or ▶ button to highlight **Yes** or **No** and then press **Menu** button to confirm.
5. To switch to Thumbnail view again, press the **LCD On/Off** button.



MAGNIFYING PICTURES

While reviewing pictures, you can press the ▲ button to enlarge the picture and then press the ▼ button to zoom out or return to the normal. The pictures can be enlarged up to 4 times.

To pan through the enlarged picture, please:

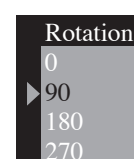
1. Press the **Menu** button.
2. Press ◀ or ▶ button to highlight **Zoom.**
3. Press the ▲ or ▼ button to highlight **Pan**, and then press the **Menu** button.
4. Press ▲ , ▼, ◀ or ▶ to navigate through the picture.
5. To exit Pan mode, press the Menu button first, then press ▲ or ▼ button to select **Exit Pan**, and then press the **Menu** button.

Note: Video clips cannot be enlarged.

ROTATING THE IMAGES

Stored images can be rotated for better review. The rotated images will not be saved.

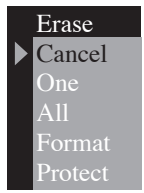
1. When the picture to be rotated is shown on the LCD, press the **Menu** button.
2. Press ◀ or ▶ button to highlight **Rotation.**
3. Press the ▲ or ▼ button to highlight **90, 180** or **270**, and then press the **Menu** button. The selected picture will be rotated in 90, 180 or 270 degree clockwise.



Note: Video clips cannot be rotated.

DELETING STORED FILES

Note: Once file is deleted, it cannot be recovered.



Deleting One File

1. When the file to be deleted is shown on the LCD, press the **Menu** button.
2. Press ◀ or ▶ button to highlight **Erase**.
3. Press the ▲ or ▼ button to highlight **One**, and then press the **Menu** button. The file will be deleted in a few seconds.

Deleting All Files

1. Press the **Menu** button
2. Press ◀ or ▶ button to highlight **Erase**.
3. Press the ▲ or ▼ button to highlight **All**, and then press the **Menu** button. All unprotected pictures and video clips will be deleted.

PROTECTING FILES

To prevent important pictures or video clips being accidentally erased, you may lock the file by following steps below:

1. Find out the file to be protected. (p. 16)
2. Press the **Menu button.**
3. Press ◀ or ▶ button to highlight **Erase.**
4. Press the ▲ or ▼ button to highlight **Protect,** and then press the **Menu** button. The selected file will be locked. A lock icon will be shown on the upper left corner of the file.
5. Repeat steps 1-4 above to protect other files.

FORMATTING THE SD CARD

Caution:
1. Formatting will delete all pictures and video clips from the memory.
2. During the formatting process, never remove the memory card or batteries, as it will damage the card and/or the camera.

1. In Review mode, press the **Menu** button
2. Press ◀ or ▶ button to highlight **Erase**.
3. Press the ▲ or ▼ button to highlight **Format**, and then press the **Menu** button. The SD card will be formatted in a few seconds. The LCD shows “No File Exist”. Press the Review button to return to capture mode.

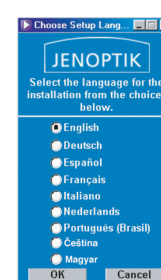
CONNECTING TO PC

INSTALLING SOFTWARE (FOR WINDOWS USERS)

The software CD provided in your camera package contains the following items:

Option	Function	Installation Requirement			
		Windows 98SE	Windows 2000	Windows ME	Windows XP
Camera Drivers	Enables the camera to become an External drive on your computer.	Required	No need	No need	No need
	Enable the camera to be used as PC cam.	Required	Required	Required	Required
Ulead Photo Explorer 8.0SE	Enables you • to playback and transfer the files(pictures and video clips) from the camera to your computer; • to enable video playback under Windows 98SE and 2000; • to use the camera as PC camera; • to organize, edit and share photos etc.	Required		Optional	
Ulead Cool 360	Enables you to transform a series of photos into a complete 360° panoramic or wide-angle panoramic scene for an immersive viewing experience.	Optional			
Adobe Acrobat Reader	Enables you to view the electronic version of the User's Guide.	Optional			
User's Guide	Direct link to the electronic version of the User's Guide in different languages. (All User's Guides are saved in PDF format.)	---			
Concord Support Website	Direct link to our camera support website. Ensure that an internet connection is established before clicking on the link.	---			

Step 1 Start up the computer, and close any other applications or software you may be running.
Step 2 Insert the supplied CD-ROM into your computer's CD-ROM Drive.
Step 3 Select the language. Click **[OK].**
NOTE: If the installer does not start automatically within 30 seconds after the CD-ROM has been inserted, click on **"My Computer"** either on the Desktop or in the Start Menu and locate the CD-ROM Drive. Double click on the CD-ROM Drive icon for installation and proceed to Step 4.



Step 4 When the splash screen appears, click the software you want to install to start installing the software.

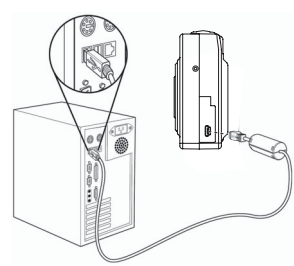
Step 5 Follow the on-screen instructions to complete the installation.

Note: To ensure the smooth running of the software just installed, please reboot your computer even if the computer did not remind you to restart.

DOWNLOADING FILES TO YOUR COMPUTER

Note for Win 98SE user: You must install the driver before proceeding to download files.

1. Plug the larger end of the supplied USB cable into your PC's USB port.
2. Power on the camera, press the **Review** mode button to set the camera to Review mode.
3. Plug the smaller end of the USB cable into the USB port of the camera. The camera LCD shows MSDC.
   Note: If it is the first time to connect the camera with your computer, the computer will take a few seconds to recognize the camera. Please wait until it is completed and then proceed to the next step.
4. Double-click on **My Computer.**
5. Double-click **Removable Disk.**
6. Double-click **DCIM.**
7. Double-click the folder that contains the desired images to view.
   - The stored pictures (JPG) and video clips (AVI) stored in the memory will be displayed
   - To play back the video clips, double click on the desired video file. **For Windows 98SE and 2000, the movie playback is required for the installation of Ulead Photo Explorer 8.0 SE Basic which is bundled with the supplied CD-ROM.**
8. Click and drag the files into a directory in your computer to save them.
   - To select all files, click Edit > Select all.



Note: You may also transfer the stored pictures and video clips on your memory card onto your computer by using a memory card reader (sold separately.)

UNPLUGGING YOUR CAMERA FROM THE COMPUTER

fig.1.1

Windows 98SE:

Unplug the Mini-USB from the camera directly.

Windows ME/2000/XP:

1. Turn the camera off.
2. Click once on the **"Unplug or Eject Hardware"** icon on the right hand side of your task bar. (fig. 1.1)
3. Select "Stop USB Mass Storage Device"
4. Click [OK] in the "Safe to Remove Hardware" prompt.
5. Unplug the Mini-USB from the camera. (fig. 1.2)

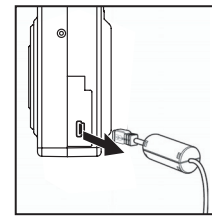
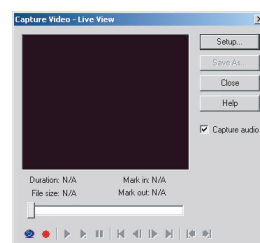


fig.1.2

USING THE CAMERA AS A WEB CAMERA (FOR WINDOWS ONLY)

Note: You must install the camera driver before using the camera as web cam.

1. Install the camera's driver (p.18)
2. Plug the larger end of the supplied USB cable into your PC's USB port.
3. Power on the camera and press the **Review** mode button to set the camera to Capture mode.
4. Plug the smaller end of the USB cable into the USB port of the camera. The camera LCD shows **PC Camera.**
5. Launch the web cam software. For example, you may use the Ulead Photo Explorer 8 bundled in the supplied CD-ROM to capture live view video by following steps below:
   1) Launch the program by clicking **Start>Program>Ulead Photo Explorer 8.0 Basic.**
   2) Click on the capture video icon ( ) or click **Video> Capture Video**. A separate window as below will appear:
   3) Click on Setup to adjust the settings.
   4) Click on the red Record button ( ) to start record live video.



APPENDIX

TROUBLE SHOOTING

Problem	Possible Cause	Possible Solution
Camera		
The camera is not running.	The power is not on.	Press the Power button to turn the camera on.
	The batteries were not loaded properly.	The correct direction to insert the AAA batteries is indicated on the camera.
	Batteries are depleted.	Replace with unused alkaline or fully recharged batteries (three AAA-size batteries).
	The battery cover is not closed properly.	Close the cover correctly and securely.
The LCD is not displaying anything.	LCD is turned off.	Turn the LCD on, by pressing the LCD On/ Off button repeatedly until the LCD is on.
	The battery level is low.	Replace the batteries.
Picture/Video clip		
Cannot take a picture or a video clip.	The camera is in correct mode.	Set the camera to correct mode. (p.8)
	The flash is charging.	Wait until the flash finishes charging. (p.9)
	The SD card memory is already full.	• Obtain a new SD card and insert it. • Download images to your computer, and then delete them to free up more space. • Delete unwanted files.
	The SD card is not formatted correctly.	• Format the SD card with the camera. • Ask SD card manufacturer for assistance.
Picture is too dark.	No enough light, while the flash is at Off mode.	• Use Fill flash during night time. • Use Auto flash during daytime. • Adjust the exposure setting. (p.11) • When shooting picture with flash, always keep the distance between the camera lens and the subjects no less than 1.5m but no more than 2.5m.
	The batteries are too low to fire flash.	Replace the batteries with new ones.

The pictures are blurred.	Hands were not steady when taking the picture.	Ensure hands are steady when taking picture and remain steady one second after clicking the Shutter button.
	The lens is dirty.	Clean the lens.
	The picture subject was not in the focus range of the camera.	Keep a minimum distance of 1.5m (5ft.) between the picture subject and the camera lens to stay in the focus range of the camera.
Picture is blurred when looking through the viewfinder.	Viewfinder is dirty.	Clean the viewfinder with a soft cloth or cotton swab. See the Camera maintenance section.
Part of the picture/ video clip is missing.	Something was blocking the lens when taking the picture.	Keep hands, fingers, etc. away from the lens when taking a picture.
	The picture was not centered correctly in the viewfinder.	Leave space around the subject when centering the picture in the viewfinder.
There is something wrong with the color of the photographs.	White balance is not properly.	Reset the white balance feature to Auto, or for the specific lighting in the surrounding area.
The pictures show on the LCD very slowly.	The picture size is large.	Select a smaller picture size, M picture size recommended.
SD card		
Cannot take a picture or a video clip when using an SD memory card.	The SD card is locked or write protected.	Remove the SD card from the card slot and slide the lock switch to off.
The camera does not recognize your SD card.	The card may not be SD certified.	Purchase a certified SD card.
	The card may be corrupted. Reformat the card.	Caution: Formatting erases all pictures on the card. (See P.17)
	No card is inserted in the camera.	Insert a card into the card slot. (See P. 6)
Downloading		
The computer cannot download files from the camera.	Camera power is off.	Turn on the camera.
	USB cable is not securely connected.	Connect cable to camera and computer port.
	The camera driver isn't installed.	Windows 98SE user must install the camera driver first before proceeding to transferring files. (p.18)
	The camera isn't at Review mode.	Set the camera to Review mode. (p.8)

SPECIFICATION

Image Sensor	CMOS Sensor, 3 Mega pixel, 4 Mega pixel by interpolation
Lens Specification	F 2.8, f = 8.35 mm, 2G2P
Shutter Speed	Electronic shutter 1/5000-1/5Sec.
Focus Range	1.5m to Infinity
Flash Range	1.0m to 1.5m
Flash Strobe	Auto, Flash On, Flash Off
White Balance	Auto / Daylight / Dusk / Tungsten / Fluorescent /Sunrise
Exposure Control	Auto / Manual (-1.5EV ~ +1.5EV)
Self-Timer	10 Seconds
Resolution	Image capture: Super (2304x1728), High(2048x1536), Medium (1600x1200), Low (1280x1024) Video recording: QVGA (320x240), QCIF (192x144)
Compression	JPEG / MJPEG (AVI)
Zoom	4x Digital Zoom
Display	1.4” color STN
PC Interface	USB 1.1
Storage Type	SD Card Slot (Card Not Included)
Power	AAA Batteries x 3
Operating System	Microsoft Windows 98SE / 2000 / ME / XP
Bundled Software	Ulead Photo Explorer 8.0 SE and COOL 360

- Specifications are subject to change without prior notice.

GETTING HELP

You can get help from the troubleshooting section, FAQ or Customer Support on our website.

Troubleshooting Section in this User's Guide
Please refer to the Troubleshooting section first, as it contains some of the most common problems that users encounter.

Website FAQ
Please visit our website at www.jenoptik-camera.com to view the Frequently Asked Questions (FAQ).

Website Customer Support
If the problem you are encountering is not listed in the FAQ section, please send us an email through our web site by clicking on Contact Us.

If you have questions concerning the operation of the camera or software installation, please have the following information ready before you contact us:

Camera Information:
Name of camera model:
Camera Serial Number:

Computer Information:
Operation System:
Computer Maker and Model:
Exact Error Message Received:

SAFETY TIPS AND MAINTENANCE

Cleaning the camera body

Please use a soft dry cloth to clean the camera.

Cleaning the lens and LCD

1. Blow off dirt or dust with a blower or canned air.
2. Gently wipe the lens and/or LCD with a micro-fiber cloth.
3. To remove dirt or residue, moisten the cloth with lens cleaning fluid and gently wipe the lens and/or LCD.
   CAUTION: Do not apply the fluid directly onto the lens or LCD.

Cleaning the battery contacts

As a matter of routine operation and handling, should any debris or foreign contaminant deposit itself on the battery contacts in the camera and/or on the batteries, follow steps below to clean the battery contacts to ensure proper electrical operation:

1. Wet the tip of a cotton bud/swab with rubbing alcohol and squeeze the excess alcohol from the bud/swab.
2. Wipe the battery contacts inside the camera battery compartment and both ends of the batteries lightly with the damp bud.
3. Allow the contacts to dry before placing batteries in the camera.

Caution:

1) Do not press hard during cleaning, as this will cause damage to the battery contacts.
2) Do not use water to clean the contacts, as this will increase the chance of oxidation.
3) Do not use Acetone or Nail Polish remover to clean the contacts as this may adversely affect camera operation.

SAFETY TIPS

Precautions for the camera

- Do not attempt to modify this camera in any way. This may cause a fire, electric shock or severe damage to the camera.
- Do not use the flash in close proximity to people or animals.
- When taking photographs, never point the lens of the camera directly into very strong light.
- Please do not use this product in close proximity to flammable or explosive gases as this could increase the risk of explosion.
- For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents.
- Do not swallow batteries or small camera accessories.
- Keep the camera away from water and other liquids, and never let it get wet. Do not use outdoors when it is raining or snowing.
- Should any form of liquid enter the camera, do not use it. Switch the camera off, and then remove the batteries. Do not continue to use the camera as this may cause a fire or electric shock.
- Do not insert or drop metallic or inflammable foreign objects into the camera through access points e.g. card slot and battery chamber. This may cause a fire or electric shock.
- Do not operate this camera with wet hands. This could pose a risk of electric shock.
- Under the environment with electrostatic discharge, the camera may malfunction and require the user to reset the camera.
- Under the environment with electrical fast transients (EFT), the camera may lose function and require user to reset the camera.
- Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.
- Please avoid using the camera in high or low temperature. Operation temperature range 32°F - 104°F (0°C - 40°C).

- It is normal that the temperature of the camera body rises after being in use for a long period.
- Do not leave this camera in places subject to extremely high temperatures such as in a sealed vehicle, direct sunlight or other places with extreme variances in temperature. Exposure to extreme temperatures may adversely affect the camera's internal components and could cause a fire.
- Always use the camera and its accessories in a well-ventilated area.
- Allowing dust to accumulate in the camera over a long period of time is hazardous and in extreme circumstances may cause a fire. It is best to clean your camera prior to seasonal periods of high humidity.

Precautions for batteries

- Dispose of the battery in a manner that complies with applicable laws.
- Leakage, overheating, or burst battery could result in fire or injury.
- Do not short circuit, heat or dispose of batteries in fire.
- Ensure the battery is positioned correctly with regard to polarity.
- Battery may lose power if kept inside the camera for a long time without using. Please remove the battery while the camera is not in use.
- Batteries may not work normally under 32°F (0°C).

Precautions for SD Memory Cards

- In the event of malfunction or damage, it is possible that data may be lost. Concord Camera is not responsible in any way for such data loss.
- Do not touch the terminals with hands or metal objects.
- Keep dust, water and foreign objects away from the terminal section.
- Avoid heat, liquid and direct sunlight when using and for when storing.
- Do not open the battery/card cover or remove the SD Memory Card while data is being read or written.
- Do not dismantle or modify.
- The recorded data may be lost if the card is affected by strong static electricity, electrical shock, during card repair or malfunction.
- When using SD Memory Cards do not change the attributes (read-only, etc.) of the files (pictures (JPEG) or video clips (AVI) on the card. Doing so may prevent the camera from working properly when deleting, etc.
- Do not change the file names or the directory name of the pictures or video clips using a computer or save files other than pictures or video clips taken by this camera onto the SD memory card. Pictures or video clips that have been edited or added to the SD memory card with the computer may not play back and it may cause the camera to malfunction.
- The SD Memory Card includes a write-protect switch. Sliding this switch downward prevents data from being written to the card and pictures and video clips saved on the card are protected.
- Please note that pictures and video clips cannot be taken or deleted when the write-protect switch is on.
- When using a large-capacity card, writing, reading and deleting may take some time.
- Do not store the card in places with high humidity, dusty places or where static electricity or electromagnetic fields are likely to occur.
- Images stored in the memory card may be ruined or damaged if you turn off the camera while it is in process of reading, writing or formatting etc.
- SD cards are delicate electronic devices. Please do not bend or drop them
- Please do not place the SD card in or near to an environment of strong electronic or magnetic fields such as loud speakers or TV receivers.
- Please keep the SD card in its bag or case when not in use.
- It's normal that the SD card is warm after use.
- Please make sure you switch off the camera before you remove the SD card.
- Do not open the battery/memory card door or remove the SD Memory Card while the camera is reading, writing or formatting the card.

REGULATORY INFORMATION

FCC INFORMATION

FCC WARNING: This equipment meets the limits for a Class B digital device, pursuant to Part 15 of FCC rules. Only the cable supplied with the camera should be used. Operation with other cables is likely to result in interference to radio and TV reception and could void the user's authorization to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Tested to comply
with FCC standards
for HOME OR OFFICE USE

Changes or modifications not expressly approved by the manufacturer may void the user's authority to operate this equipment.

USER INFORMATION

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CE - This product is in conformity with Directive 89/336/EEC.

DISPOSAL OF ELECTRIC AND ELECTRONIC EQUIPMENT IN PRIVATE HOUSEHOLDS

Disposal of used Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product, or in the in the manual and in the warranty, and/or on its packaging indicates that this product shall not be treated as household waste.

Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

If your equipment contains easy removable batteries or accumulators please dispose these separately according to your local requirements.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city offi ce, your household waste disposal service or the shop where you have purchased the product.

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